

COPY DATA BETWEEN SYSPLEXES

Effective: March 12, 1997
Revised: May 14, 2001
Owner: Linda Hull

PURPOSE

To define a procedure for copying data files from SYSPLEX to SYSPLEX.

SCOPE

These procedures should be followed by all Information Technology Service personnel and customers.

BACKGROUND

These procedures document the process by which data is moved between sysplexes and the use of volumes allocated to more than one sysplex. There are three approved methods to accomplish this: FTP (File Transfer Process), TSO XMIT, and Data Set copy via a Staging Process. None of these methods support VSAM data sets. VSAM data sets must be dumped and restored using standard methods such as DFDSS or IBM Utilities. DFDSS dump and restore examples are provided in the Staging Process procedure.

Volumes STAGE1 and STAGE7 are the only share general purpose volumes designated exclusively for staging from one site to the other. STAGE1 will be used for staging data between the Salt Lake Sysplex (CPU0, CPU1, CPU2, CPU3, and CPU4) and the Richfield Sysplex (CPU5 and CPU6). STAGE7 will be used for staging data from the Salt Lake Sysplex to the Richfield Sysplex (CPU7). Any data left on STAGE1 or STAGE7 for more than three days is subject to deletion without prior notice.

To improve data integrity and performance, it is imperative that everyone discontinue use of all shared volumes unless specifically authorized (i.e., RSHR01, SHR001, etc.) After March 28, 1997, any unauthorized data residing on these volumes is subject to immediate deletion without notice.

General Sysplex Data Set Naming Conventions: When allocating or copying data to different sysplexes, use proper naming conventions to identify the sysplex. This may



require ITS Security personnel to authorize a new node. For example:

Sysplex1 (Production Salt Lake Site) DSN	=	DP.PSS.CNTL
Sysplex2 (Production Richfield Site) DSN	=	DP.PSSR.CNTL
Monoplex1 (Year2000 Richfield Site) DSN	=	DP.PSS7.CNTL

If you need assistance or additional information, please call the ITS Help Desk at 538-3440 and place a request for assistance from the Production Support Services DASD Group.

PROCEDURE

FTP (File Transfer Process)

FTP is the recommended batch process used to move sequential DSN and PDS (member level only) between sites. Remember, this process does not support VSAM Data Sets. Valid ITSMFX codes are:

ITSMF2	(CPU2)
ITSMF3	(CPU3)
ITSMF	(CPU4)
ITSMF5	(CPU5)

1. Set up JCL at the site from where you will send.
2. Sign on to the site where you will be sending.
3. Preallocate "TO" data set.

JCL Example to FTP to the Richfield Sysplex:

```
//DPXXX& JOB (ACCTXXX), 'DESC',  
//    REGION=0M,  
//    MSGCLASS=X  
//    CLASS=?,  
//    NOTIFY=DPXXX
```



```
/*ROUTE PRINT XXX
//STEP1      EXEC PGM=FTP,REGION=0M
//SYSPRINT DD SYSOUT=*
//SYSPUT DD SYSOUT=*,DCB=(LRECL=133,BLKSIZE=144)
//SYSIN      DD *
ITSMF5
LOGONID      PASSWORD
PUT 'DPXXX.CNTL(JOBCARD)' 'DP.PSSR.JCL(JOBCARD1)'
CLOSE
/*
```

TSO XMIT

1. From the Salt Lake Sysplex, go to ISPF, Option 6.
2. From Option 6 enter: XMIT DASDXX.USERID DA(data set name)

Valid DASDXX codes are:

DASDP0	(CPU0)
DASDP1	(CPU2 or CPU3)
DASDV	(CPU4)
DASDP2	(CPU5 or CPU6)
DP2000	(CPU7)

This example will send the file to CPU5 or CPU6:

XMIT DASDP2.DPLWH DA(SAMPLE.JCL)

3. Sign on the Richfield Sysplex—the sysplex to which you sent the data.
4. From Option 6, enter: RECEIVE
5. If there are data sets to be received, the system will respond with this prompt:

Data set TSOID.NONVSAM. TSOID from user ID DASDXX. Enter restore



parameters or 'delete' or 'End'.

Press the enter key. The data set will keep the original name, but the HLQ will be replaced with your user ID.

6. Options that can be used after the Enter key is pressed:

Rename data set: DA(Newname.data set)

Member of existing data set: DA(Newname.PDS(MEMBER1))

Data set already exists: Use DA(newname.xxx) or respond to duplicate message with 'R' to replace existing data set.

Staging Process

1. From Sysplex1, go to ISPF Option 3.2
 - a. Display data set to copy. This will obtain attributes needed for new data set allocation.
Example: Current DSN='DP.PSS,CNTL'
 - b. Enter Option A (allocate) to allocate new data set. Change volser parameter to: (STAGE1 or STAGE7). Press enter to allocate.
Example: New DSN='DP.PSS.CNTLX'
2. Go to ISPF Option 3.3
 - a. Enter Option C (copy). Enter from 'Data Set'.
Example: Current DSN = 'DP.PSS.CNTL(*)'
(*) is for a PDS data set. This will copy all members.
 - b. Enter to 'Data Set'.
Example: Preallocated DSN = 'DP.PSS.CNTLX'
 - c. Press Enter to copy.



3. Go to Sysplex2 -ISPF Option 3.2
 - a. Display data set to copy. 'DP.PSS.CNTLX' Code volser to Display (STAGE1/STAGE7)
 - b. Enter Option M (allocate) to allocate new SMS data set. Do not put in volser unless a volser has been provided by Production Support Services. Let SMS (System Managed Storage) pick the volser. (If a volser is required, use Option A.)
Example: New DSN = 'DP.PSSR.CNTL'
 - c. Press Enter to allocate.
4. Repeat Step 2 using from 'DP.PSS.CNTLX' to DSN 'DP.PSSR.CNTL'
5. Delete any data sets left on stage volumes. Data sets will need to be deleted from the site to which they were created and catalogued. For example, if data was sent from Salt Lake to Richfield, delete the data from the Salt Lake site. Due to the nature of the data that will reside on CPU7, STAGE7 has been secured to allow data copy from CPU0, CPU4, CPU5, or CPU6 to CPU7 only and will not allow the data to be staged back to the Production/Development sites.

DFDSS JCL Example to Move VSAM Via Stage Volumes

DUMP (from Salt Lake)

```
//PGM EXEC PGM=ADRDSSU,REGION=0M
//SYSPRINT DD SYSOUT=*
//OUTFILE  DD UNIT=SYSDA,DISP=(OLD,KEEP,DELETE)
//          DSN=DP.XXX.DATASET.DUMP,
           SPACE=(CYL,(100,100,RLSE)
//SYSIN    DD*
           DUMP -
           DATASET (INCLUDE(  -
                           MY.DATASET,  -
```



```
HIS.DATASET, -  
HER.DATASET)) -  
CONCURRENT -  
ALLDATA(*) -  
SPHERE -  
TOL(ENQF) -  
OPTIMIZE -  
OUTDD(OUTFILE) -
```

RESTORE (to Richfield)

```
/PGM EXEC PGM=ADRDSSU,REGION=0M  
//SYSPRINT DD SYSOUT=*  
//INFILE DD UNIT=SYSDA,DISP=(OLD,KEEP,KEEP)  
// DSN=DP.XXX.DATASET.DUMP  
//SYSIN DD*  
RESTORE -  
DATASET(INCLUDE(**)) -  
CATALOG -  
STORCLAS(STANDARD) -  
SPHERE -  
ALLDATA(*) -  
ALLEXCP -  
OPTIMIZE(4)
```

